

ABSTRACT

A DMT/OFDM transceiver wherein communication occurs between stations in the form of symbols distributed and transmitted in channels which are allocated when making a link between the stations, each channel supporting a number of bits depending on the spectral response of the link when established. Instead of providing separate modules for performing iFFT's and FFT's, the transceiver has only a single FFT, or iFFT which operates on real and imaginary parts of the data stream; the outputs of the FFT or iFFT being supplied to a post processing stage where simultaneous equations having real and imaginary terms for the transmit and receive data, are solved in order to separate the transmit and receive data.

Approved for release